

# CATALYTIC COMPOSITION FOR THE AROMATIZATION OF HYDROCARBONS

## ABSTRACT

The present invention regards a catalytic  
5 composition comprising gallium, at least one  
element chosen in the group of the lanthanides, and  
a zeolite belonging to the MFI, MEL or MFI/MEL  
families, the crystal lattice of which is made up  
of silicon oxide and at least one metal oxide  
10 chosen from among aluminium oxide, boron oxide and  
gallium oxide. Preferably, in the catalytic  
compositions of the present invention a zeolite is  
used belonging to the MFI family characterized by  
crystallites which for at least 90% have diameters  
15 smaller than 500 Å and which can form agglomerates  
of submicron dimensions characterized by possessing  
at least 30% of the extrazeolitic porosity in the  
region of the mesopores.

The catalytic compositions of the present invention  
20 can, in addition, contain rhenium.

These catalytic compositions are useful in  
processes of aromatization of hydrocarbons  
containing from 3 to 6 carbon atoms, preferably,  
hydrocarbon mixtures containing olefins.